**3.3 Angle Bisectors**

Name:\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_

**Lesson Focus: Mathletes will be able to identify, describe and draw angle bisectors**

**Recall from last lesson:**

* Bisect:
  + *Bi* means “two.” *Sect* means “cut.” So, Bisect means to cut in two.
* Perpendicular bisector
  + A line that divides a line segment in half and is at right angles (90°) to the line segment.
  + Equal line segments are marked with “hash” marks

Some ways to create an angle bisector include:

* Using a ruler and compass (p. 95)

<http://www.mathopenref.com/constbisectangle.html>

1. Draw angle VIC
2. At point C mark an arc with your compass
3. At point V mark an arc with your compass
4. Connect where the lines intersect to the vertex of the angle (point I)

* Using a ruler and protractor (p. 95)

1. Draw angle PAW
2. Measure the angle and divide it in half and mark the angle
3. Join the mark to the vertex of the angle (point A)

* Using paper folding (p.95)

1. Label angle BUG
2. Fold the paper so that BU lies along GU
3. Crease alond the fold and open paper. The fold line is the bisector of BUG

At home Practice:

* P. 97, # 1 & 2, 5, 6, 8
* Still Good? # 3 & 4, 9, 11, 13, MathLink
* ProStar? #12, 14, 15